

High Speed CCL Library

Updated to 2021.09

- **Mid-Low Loss**
- **Low Loss**
- **Ultra-Low Loss**



Mid-loss Material Library

- Impedance Range: 85 ohms +/- 10%
- L1: HTE copper foil type
- Stack up: 12L
- Testing Metrology: Delta-L
- One point indicates a test material made by one PCB shop, and it's an average data of 3 samples.

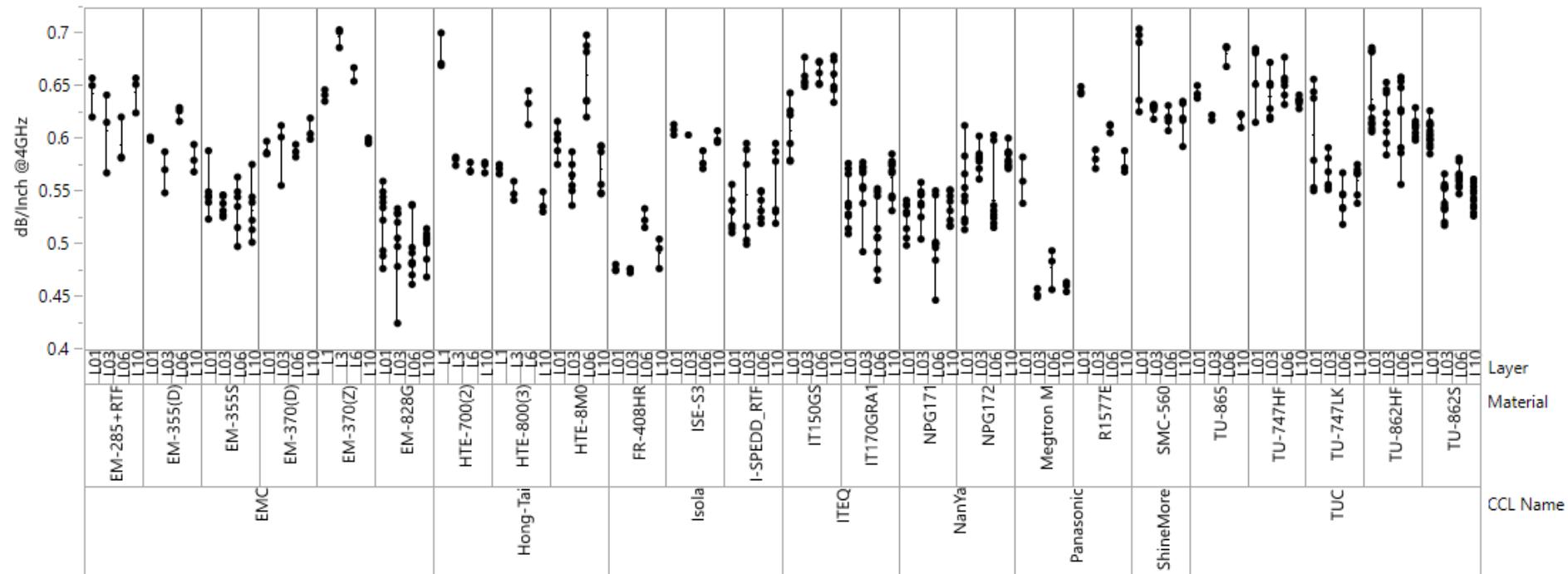


Distribution of Electrical Characteristics

(I) Individual



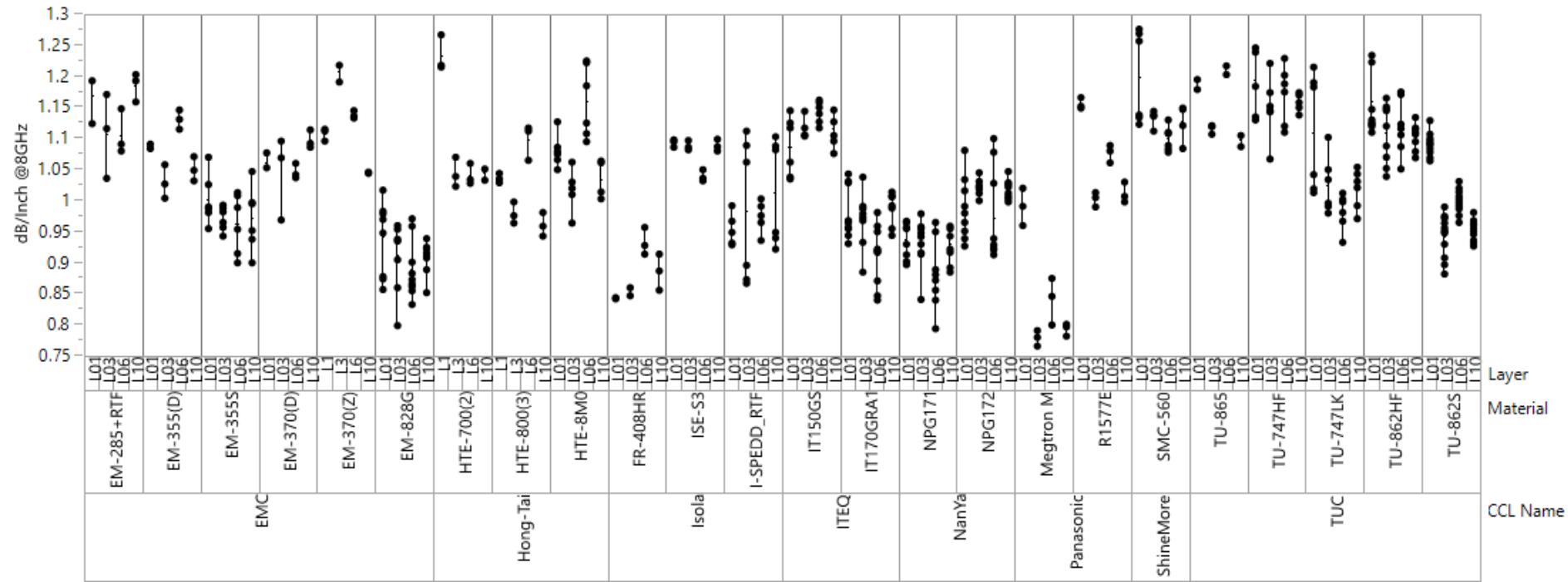
Distribution at 4GHz



Impedance Range: 85 ohms +/- 10%



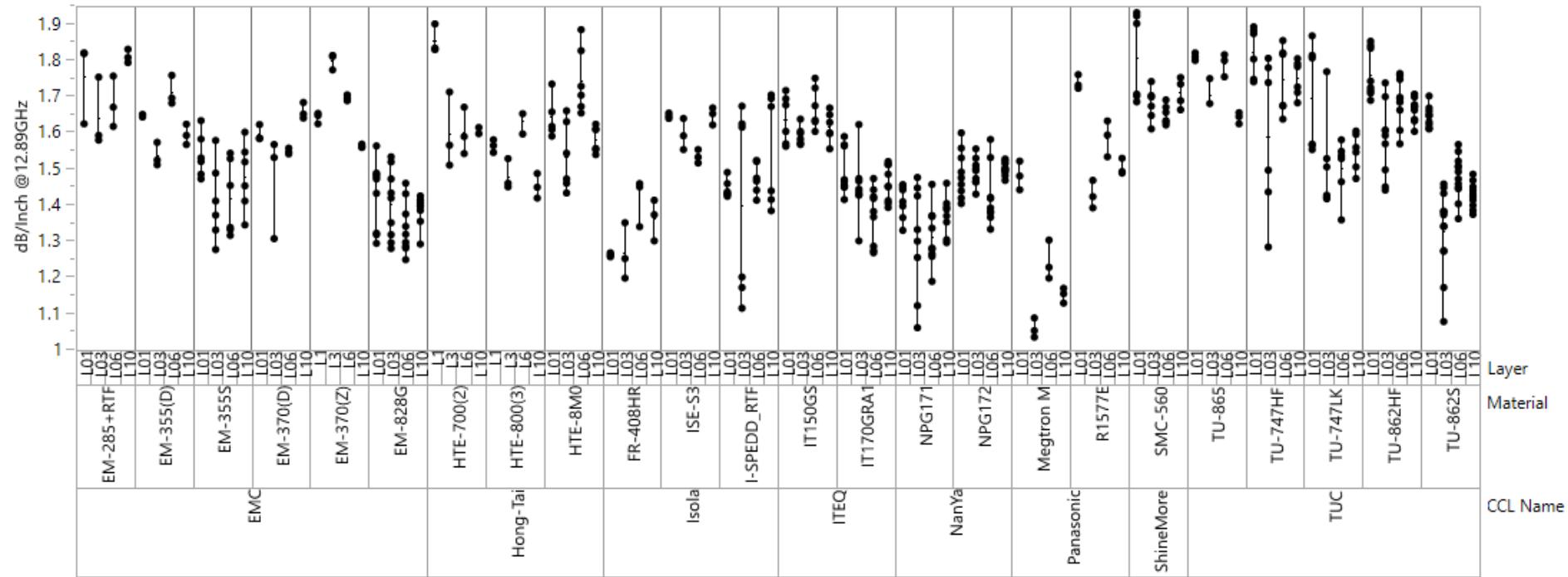
Distribution at 8GHz



Impedance Range: 85 ohms +/- 10%



Distribution at 12.89GHz



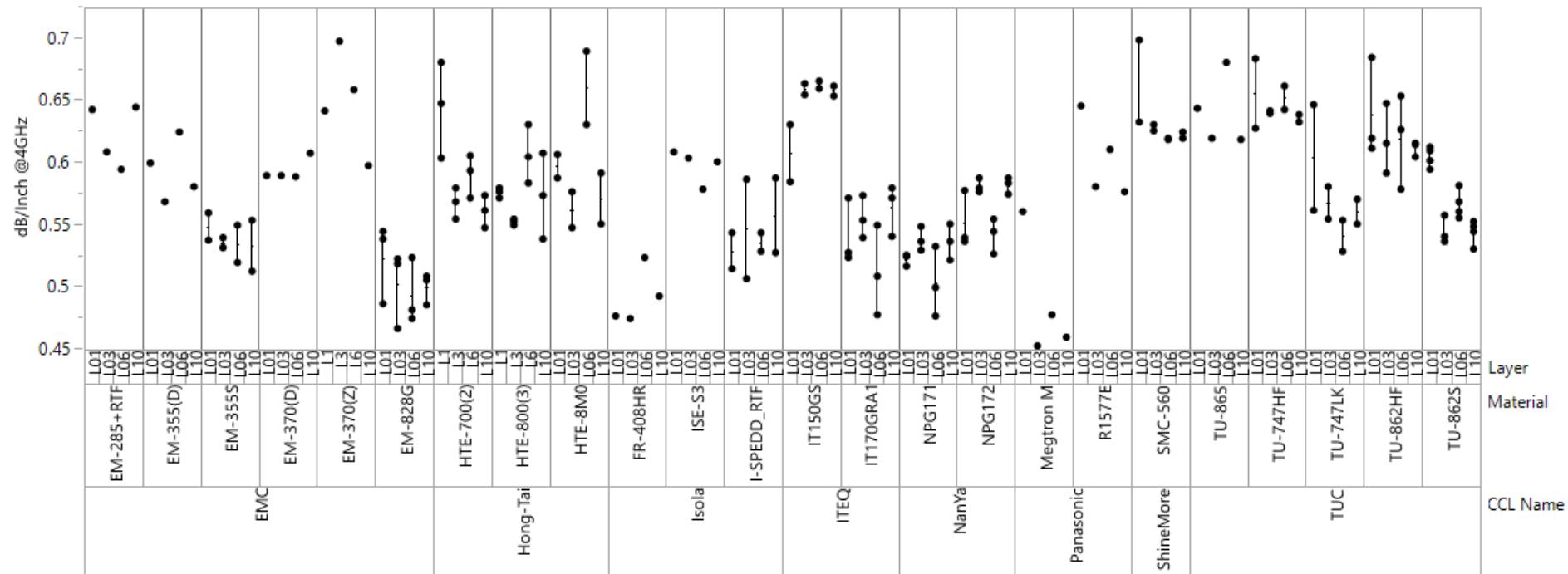
Impedance Range: 85 ohms +/- 10%



Distribution of Electrical Characteristics (II) Average Value from 3 pcs



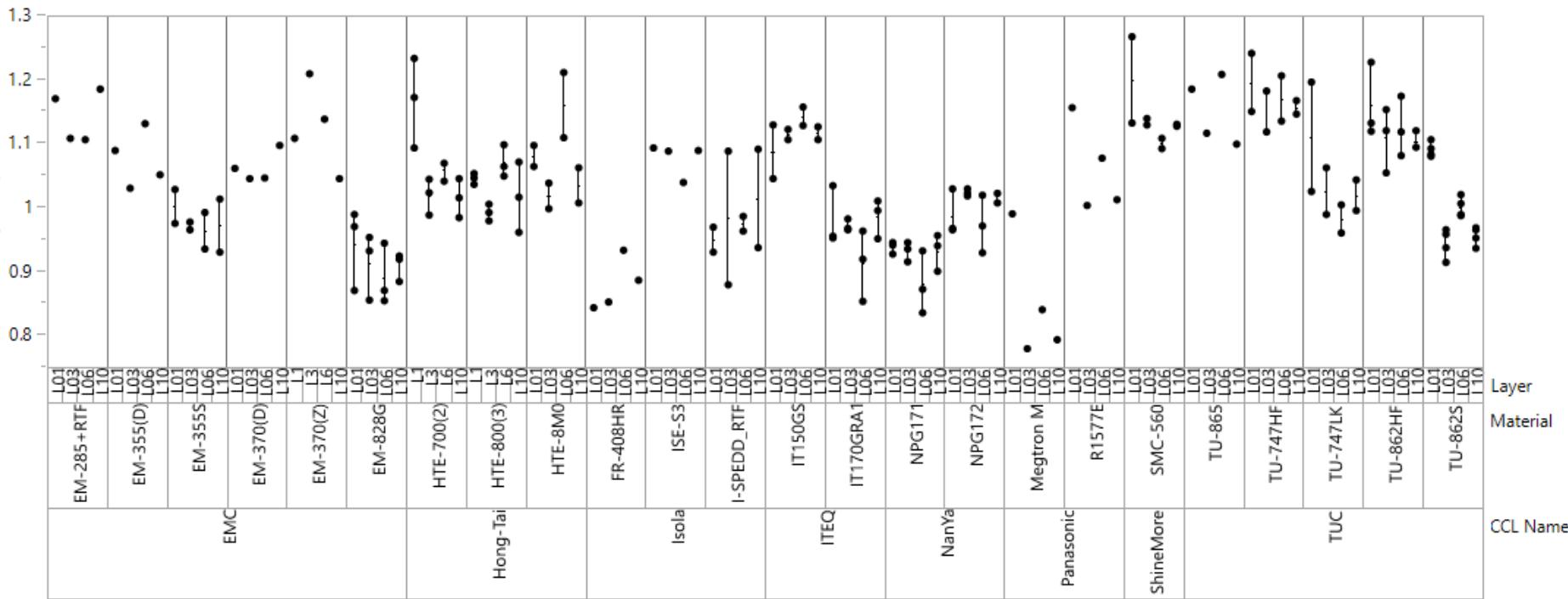
Distribution at 4GHz



Impedance Range: 85 ohms +/- 10%



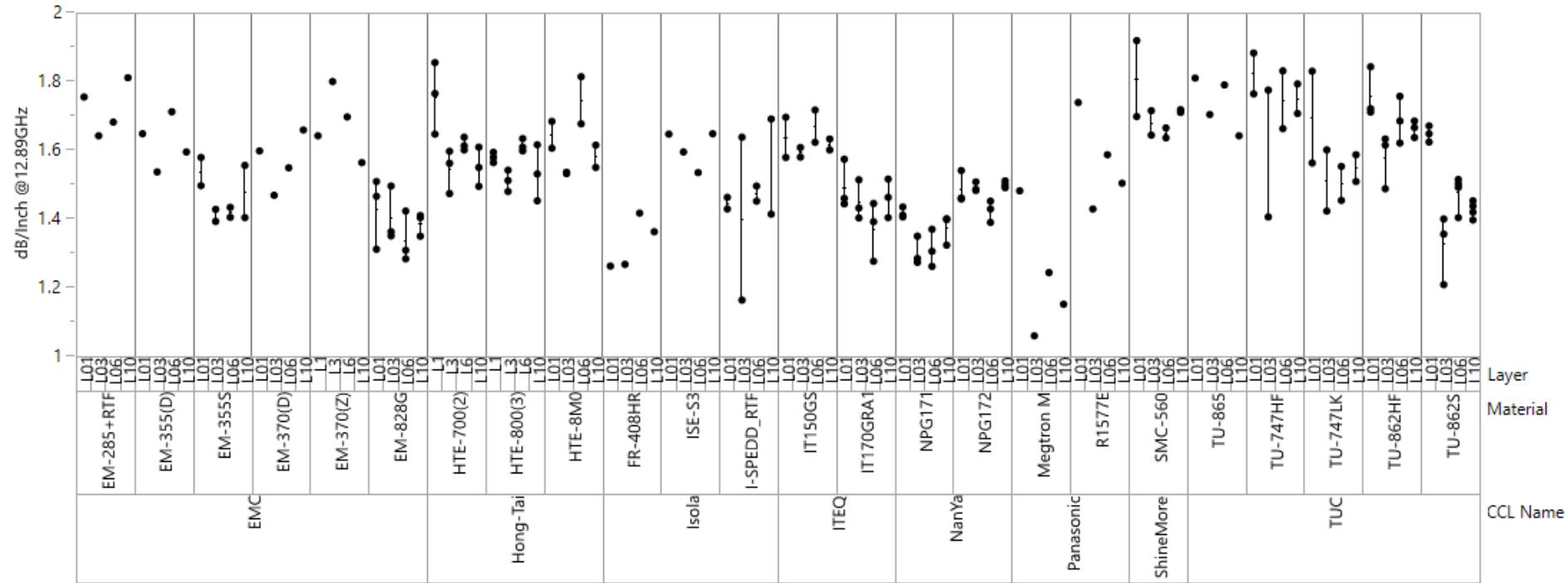
Distribution at 8GHz



Impedance Range: 85 ohms +/- 10%



Distribution at 12.89GHz



Impedance Range: 85 ohms +/- 10%



Low-loss Material Library

- Impedance Range: 85 ohms +/- 10%
- L1: HTE copper foil type
- Stack up: 16 L
- Testing Metrology: Delta-L
- One point indicates a test material made by one PCB shop, and it's an average data of 3 samples.

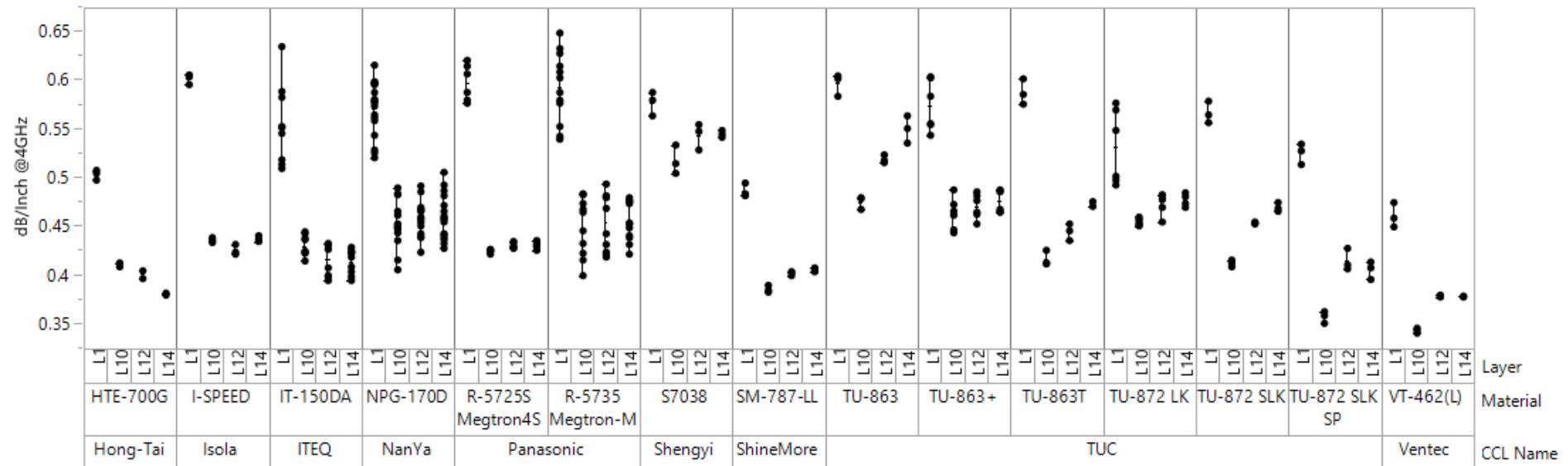


Distribution of Electrical Characteristics

(I) Individual



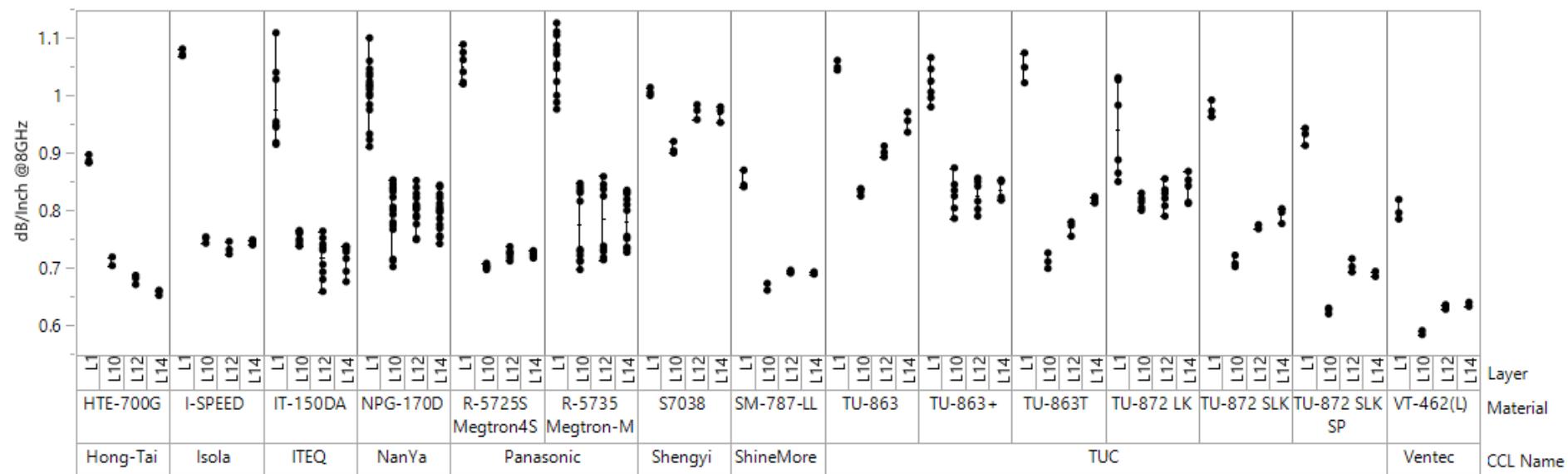
Distribution at 4GHz



Impedance Range: 85 ohms +/- 10%



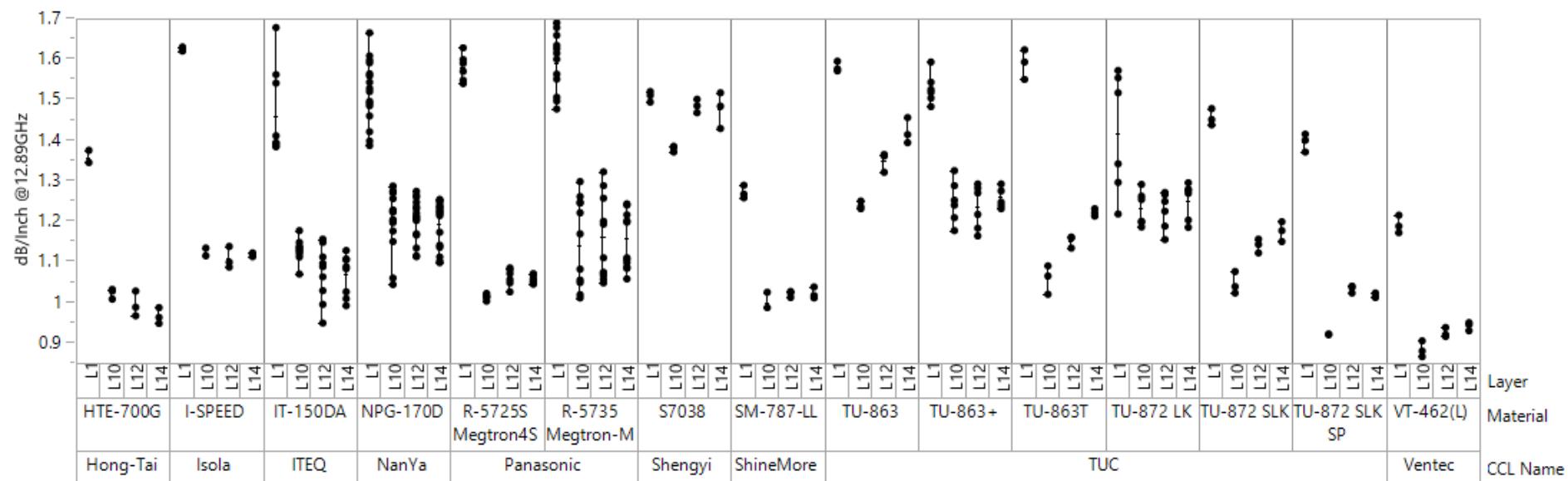
Distribution at 8GHz



Impedance Range: 85 ohms +/- 10%



Distribution at 12.89GHz



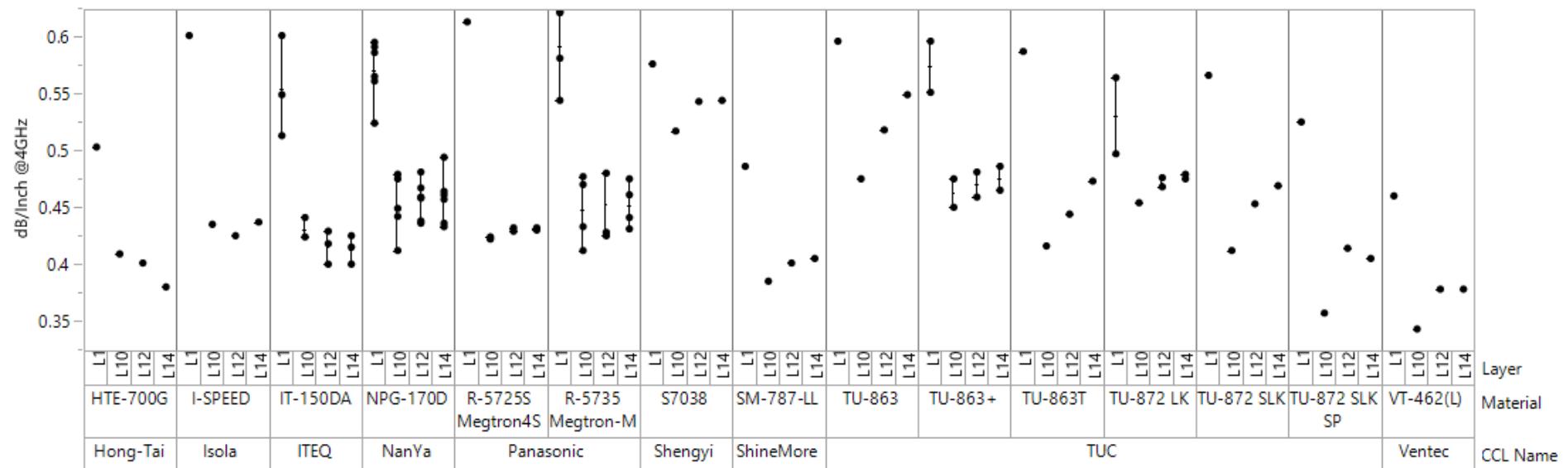
Impedance Range: 85 ohms +/- 10%



Distribution of Electrical Characteristics (II) Average Value from 3 pcs



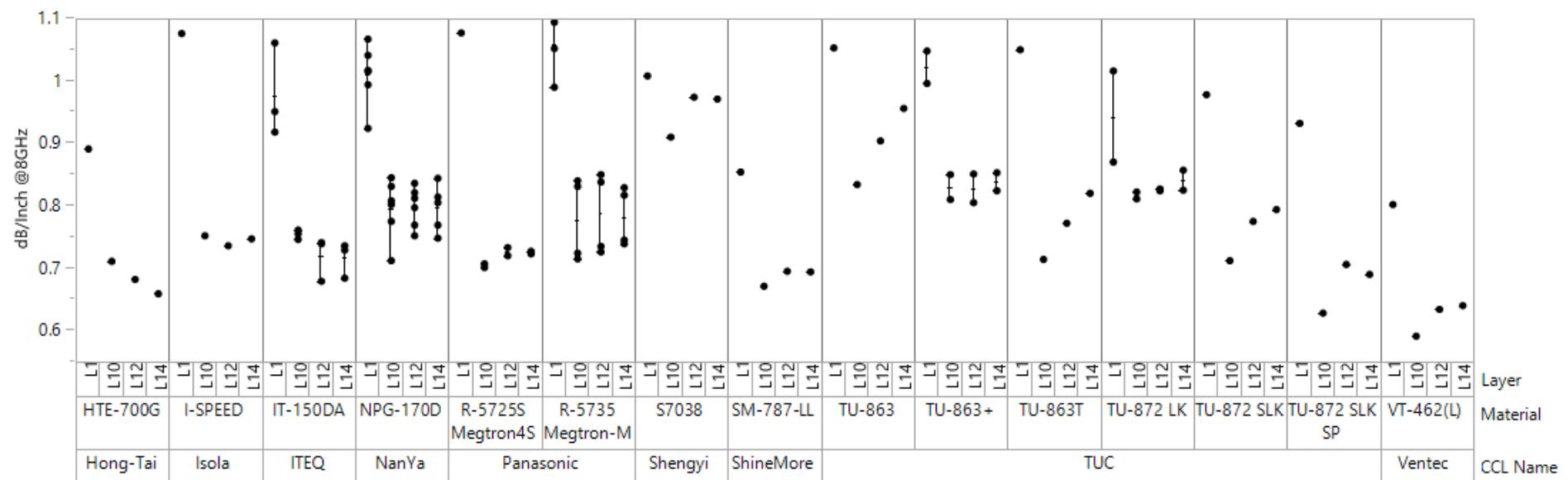
Distribution at 4GHz



Impedance Range: 85 ohms +/- 10%



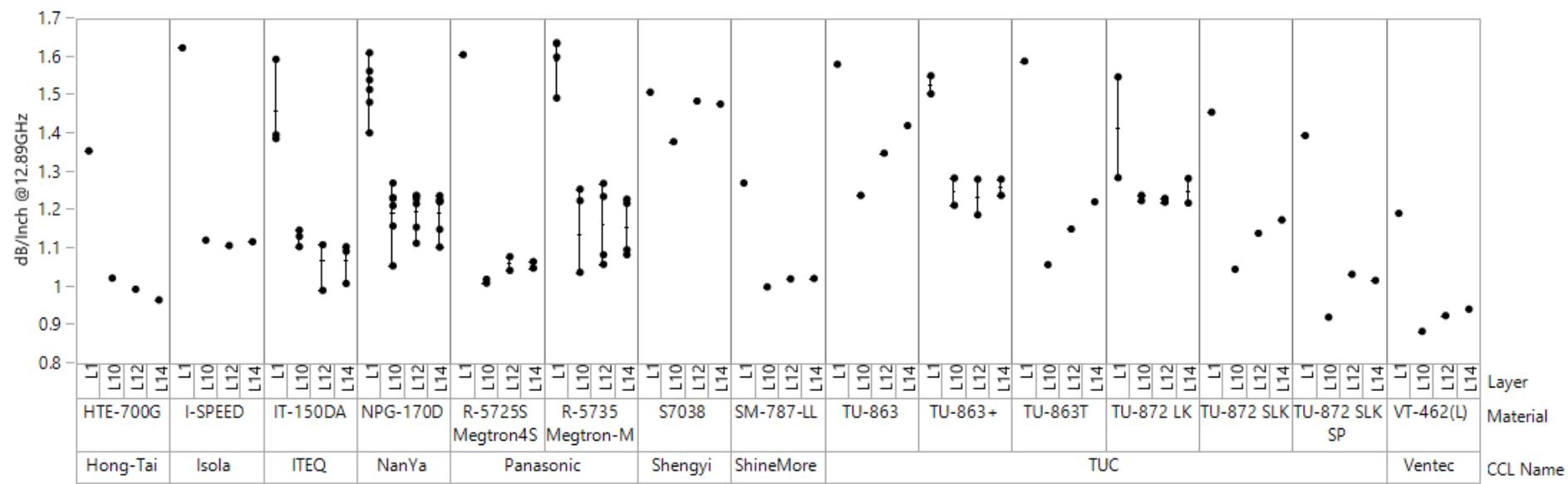
Distribution at 8GHz



Impedance Range: 85 ohms +/- 10%



Distribution at 12.89GHz



Impedance Range: 85 ohms +/- 10%



Ultra Low-loss Material Library

- Impedance Range: 85 ohms +/- 10%
- L1: HTE copper foil type
- Stack up: 12 L
- Testing Metrology: Delta-L
- One point indicates a test material made by one PCB shop, and it's an average data of 3 samples.

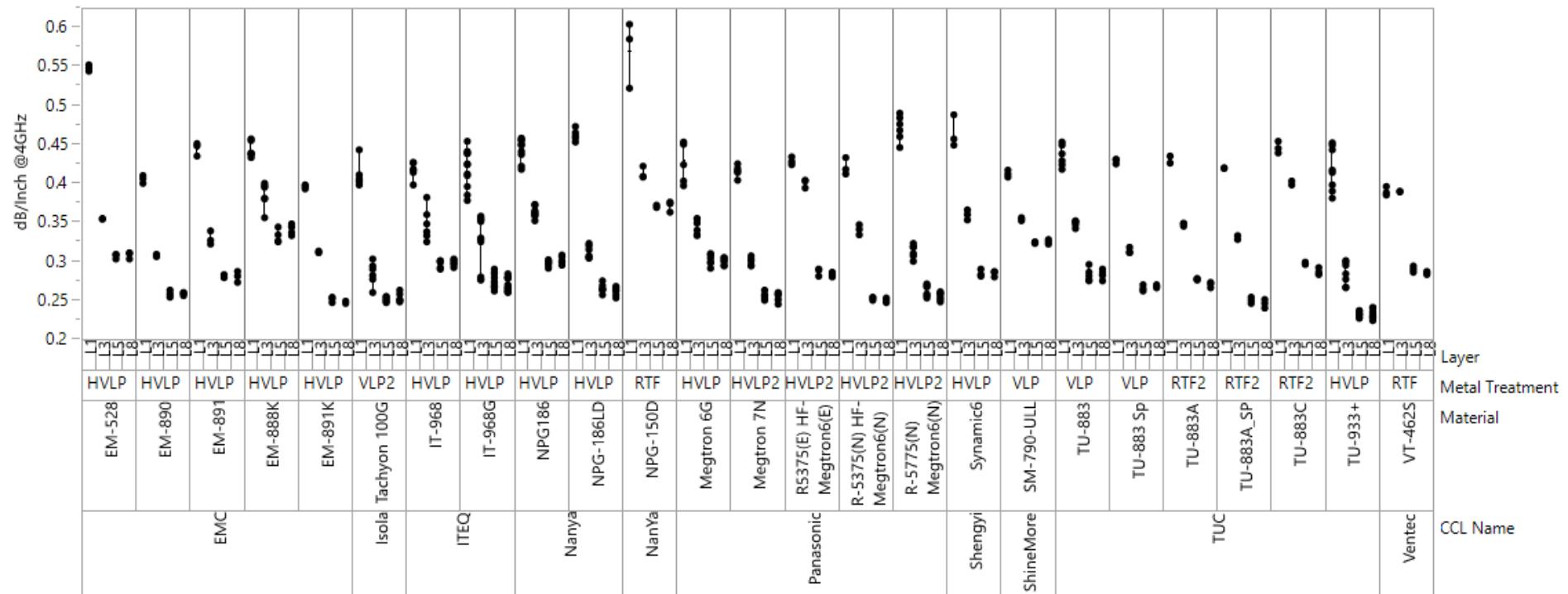


Distribution of Electrical Characteristics

(I) Individual



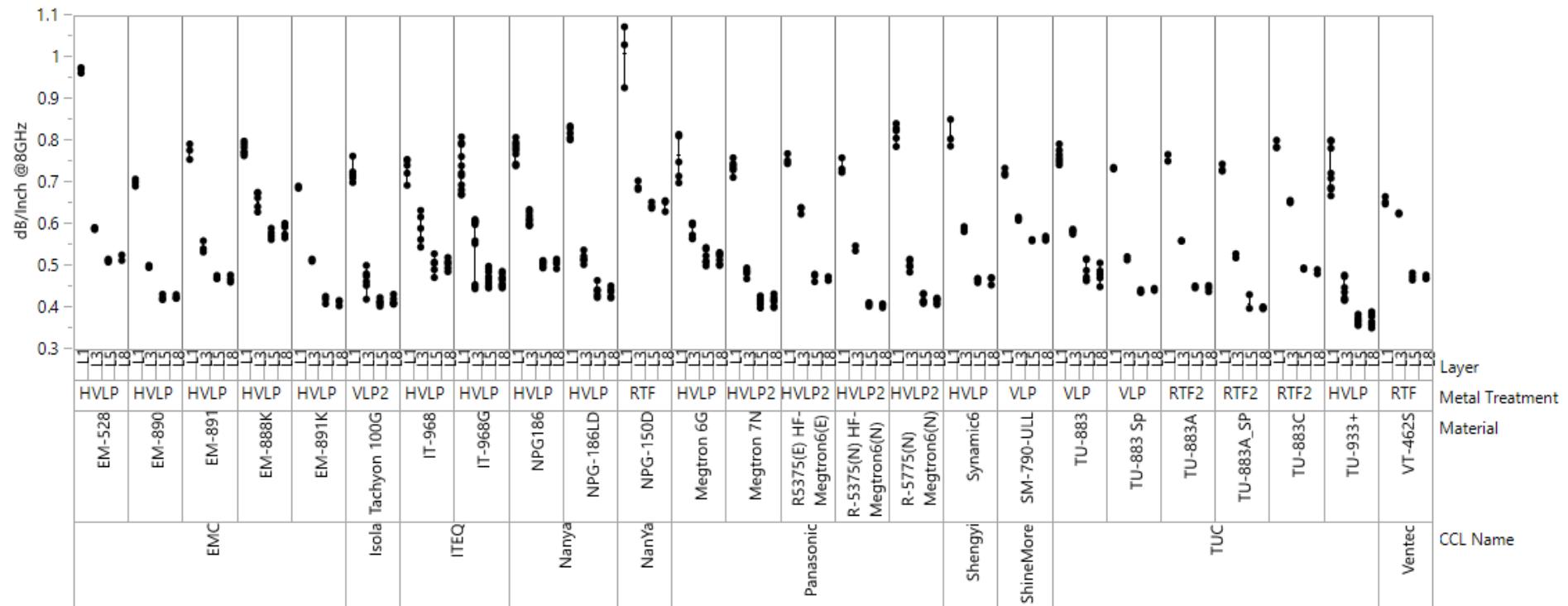
Distribution at 4GHz



Impedance Range: 85 ohms +/- 10%



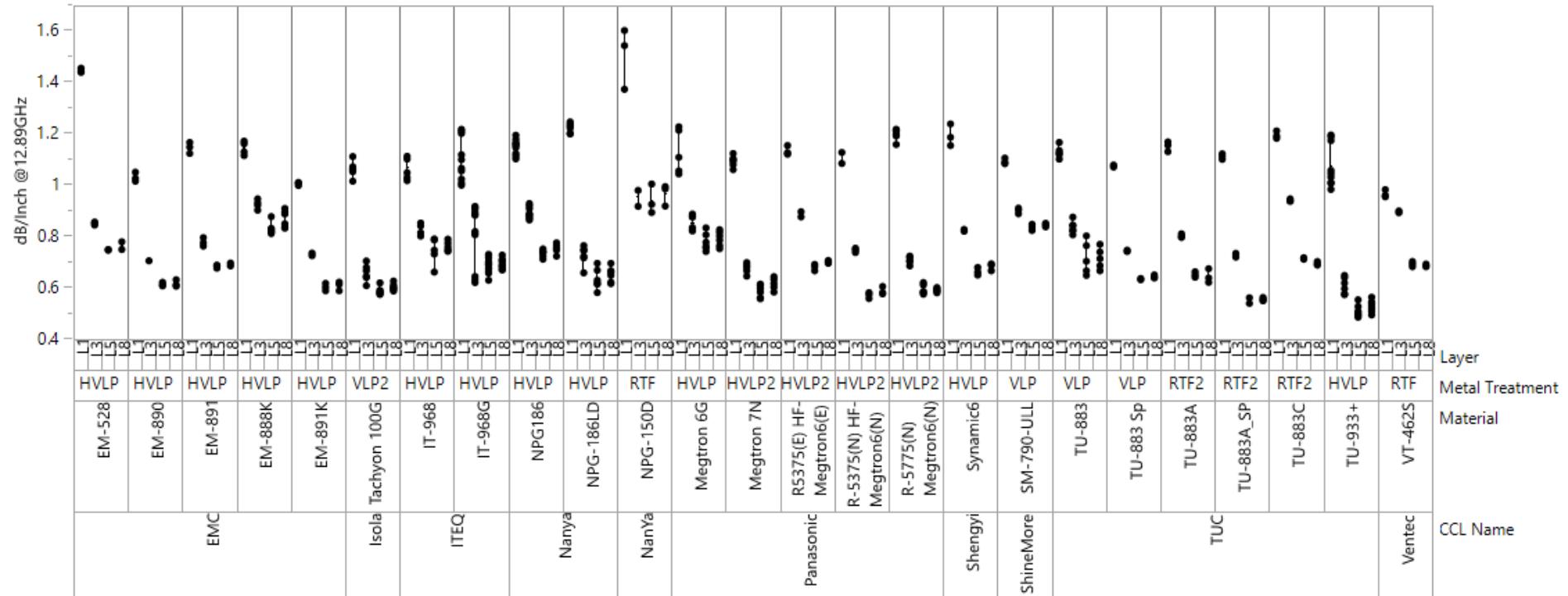
Distribution at 8GHz



Impedance Range: 85 ohms +/- 10%



Distribution at 12.89GHz



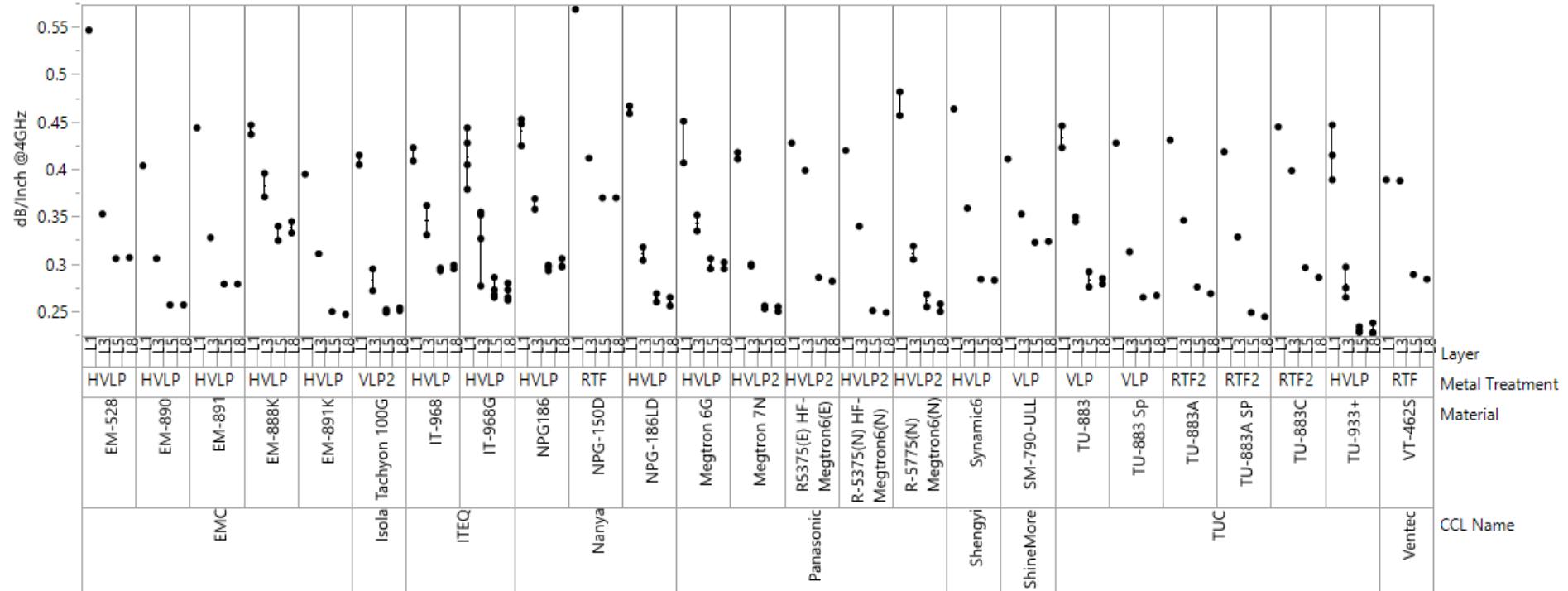
Impedance Range: 85 ohms +/- 10%



Distribution of Electrical Characteristics (II) Average Value from 3 pcs



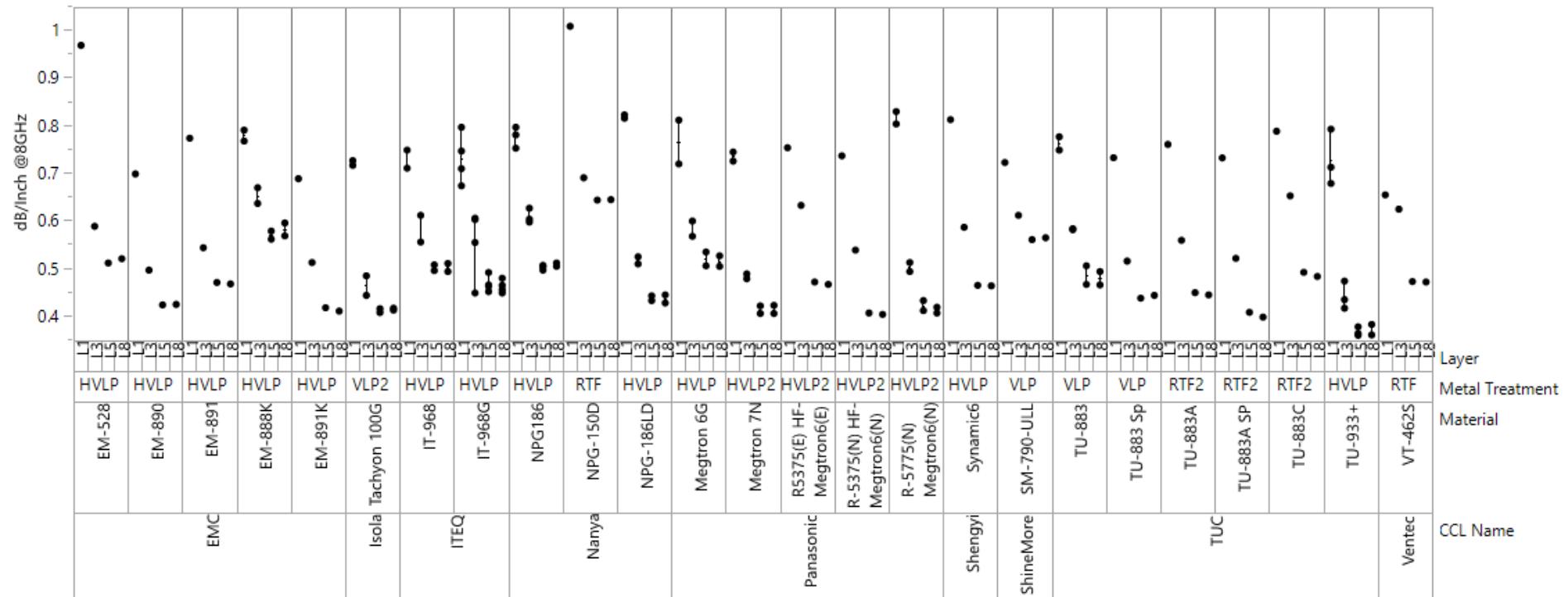
Distribution at 4GHz



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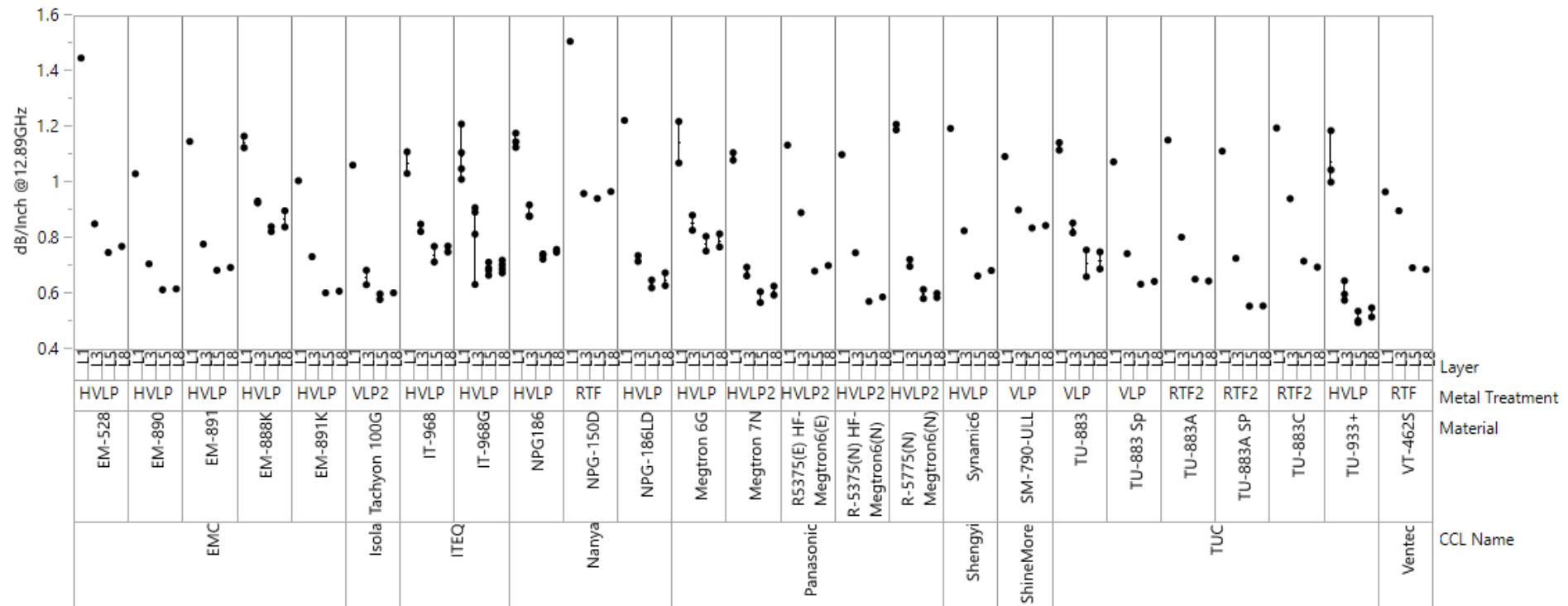
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Distribution at 12.89GHz



Impedance Range: 85 ohms +/- 10%

